

County of Fairfax, Virginia

**Department of Public Works and Environmental
Services**

Land Development Services

**2009 Comprehensive
U.S. and Metric
Unit Price Schedule**



Effective February 1, 2009

Environmental and Facilities Inspections Division
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COUNTY OF FAIRFAX, VIRGINIA
DEPARTMENT OF PUBLIC WORKS ENVIRONMENTAL SERVICES
LAND DEVELOPMENT SERVICES
2009 COMPREHENSIVE UNIT PRICE SCHEDULE
EFFECTIVE FEBRUARY 1, 2009

CATEGORY	ENGLISH UNIT PRICE	UNIT	METRIC UNIT PRICE	UNIT
<u>GENERAL CONDITIONS</u>				
Mobilization		See Note below	See Note below	
Field Offices and temp facilities				
Job Sign				
General supervision				

NOTE:

As a total for this Surety Value Estimate section:

*** Allow 5% of estimate subtotal with a minimum \$10,600**

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CATEGORY	ENGLISH UNIT PRICE	UNIT	METRIC UNIT PRICE	UNIT
<u>ENGINEERING AND SURVEY</u>				
R.O.W. Monuments Surveyed In Place				
RM-1	\$792.75	EA	\$792.75	EA
RM-2	\$528.50	EA	\$528.50	EA
Steel Pipe Property Corner Marker (includes survey)				
As-built drawing per L.F. of storm and sanitary pipe	\$264.25	EA	\$264.25	EA
	\$2.64	LF	\$8.67	LM
As built drawing of storm water management pond				
Dry Pond	\$1,268.40	AC	\$3,134.28	HC
Wet Pond	\$1,849.75	AC	\$4,570.83	HC
As-Built Survey (minimum)	\$4,042.00	LS	\$4,042.00	LS
As-Built Survey Plan Processing	\$664.00	LS	\$664.00	LS
Test Pits (not allowing for rock excavation):				
at each location not exceeding 10' deep	\$792.75	EA	\$792.75	EA
at each location exceeding 10' but not exceeding 15' deep	\$1,585.50	EA	\$1,585.50	EA
Video inspection - storm sewer:				
Utility pipes	\$6.98	LF	\$22.89	LM
Geotech Testing:				
Soils/concrete/rebar inspector	\$26.43	HR	\$26.43	HR
Geotech Professional Engineer certification	\$84.56	HR	\$84.56	HR

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CATEGORY	ENGLISH UNIT PRICE	UNIT	METRIC UNIT PRICE	UNIT
<u>EARTHWORK</u>				
Excavation used as fill on site:				
- regular bulk greater than 5000 cy	\$21.14	CY	\$27.65	CM
- regular bulk less than 5000cy	\$26.43	CY	\$34.56	CM
Rock, Rip	\$26.43	CY	\$34.56	CM
Rock, Hoe ram	\$63.42	CY	\$82.95	CM
Rock, Blast	\$63.42	CY	\$82.95	CM
Borrow Material				
Buy and Load select material for structural fill:				
greater than 5000 cy	\$26.43	CY	\$34.56	CM
less than 5000 cy	\$29.07	CY	\$38.02	CM
Buy and Load material for non structural fill:				
greater than 5000 cy	\$18.50	CY	\$24.19	CM
less than 5000 cy	\$21.14	CY	\$27.65	CM
Unsuitable Material				
Load and haul, 20 mile round trip average	\$21.14	CY	\$27.65	CM
Dump Charge-unsuitable material	\$37.00	CY	\$48.39	CM
Site Grading-after cut/fill-rough grading	\$0.70	SY	\$0.83	SM
Site Grading-after rough grading:				
- fine grading - relatively flat	\$0.53	SY	\$0.63	SM
- fine grading - dressed slopes	\$0.81	SY	\$0.97	SM

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CATEGORY	ENGLISH UNIT PRICE	UNIT	METRIC UNIT PRICE	UNIT
<u>CLEAR & GRUB</u>				
Light	\$6,342.00	AC	\$15,671.41	HC
Moderate	\$9,513.00	AC	\$23,507.12	HC
Heavy	\$12,155.50	AC	\$30,036.87	HC
Very Heavy	\$13,741.00	AC	\$33,954.73	HC

LIGHT: Grading less than 2 feet in depth. Remove vegetation, grass areas and small shrubs, small trees less than 12 inches in diameter, small out buildings less than 200 square feet, remove small utilities, e.g., water feeder lines, sanitary laterals, small gas and electrical feeds.

MODERATE: In addition to all under the Light category, grading of 2 feet to 4 feet depth, remove trees 12 inches to 24 inches in diameter, remove large shrubs up 48 inches in diameter. Remove all utility feeds, sanitary sewer pipe up to 8 inches, water lines up to 6 inches, storm sewer up to 15 inches, and gravel drive ways. Remove fencing and clear light industrial areas with small light poles.

HEAVY: In addition to all included in Light and Moderate categories: Remove trees 24 inches to 36 inches, grading not exceeding 5 feet in depth. Remove heavy brush and undergrowth in wooded areas. Remove sanitary sewer larger than larger than 8 inches, and storm sewer from 15 inches to 27 inches. Remove utility poles, underground utility lines, and boxes/vaults of same. Remove water service lines up to 8 inches.

VERY HEAVY: In addition to the first three category descriptions: Grading exceeding 5 feet of cut. Clear/remove heavily wooded areas with trees exceeding 36 inches diameter. Remove parking lot asphalt parking lot asphalt and curb and gutter. Remove pools and inground spas and all associated footings and foundations. Remove large fencing built with iron/steel pickets, razor wire, brick or concrete piers/foundations greater than 36 inches in diameter/on a side. Remove sanitary sewer pipes larger than 24 inches and septic systems/fields. Remove storm sewer pipe larger than 27 inches, remove large underground detention structures/vaults. Remove large/main water lines greater than 8 inches. Remove underground storage tanks.

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CATEGORY	ENGLISH UNIT PRICE	UNIT	METRIC UNIT PRICE	UNIT
<u>DEMOLITION</u>				
Bituminous pavement up to 4" and dispose	\$6.34	SY	\$7.58	SM
Concrete pavement and sidewalk and dispose:				
WWF reinforced	\$12.68	SY	\$15.17	SM
Non-reinforced	\$10.57	SY	\$12.64	SM
Pipe, 6" - 12"	\$37.00	LF	\$121.37	LM
Pipe, 15" - 24"	\$47.57	LF	\$156.05	LM
Manholes/structures (Sanitary & Storm)	\$379.46	EA	\$379.46	EA
Abandon pipes	\$158.55	EA	\$158.55	EA
Guardrail:				
Reset	\$12.68	LF	\$41.61	LM
Remove and reset	\$31.71	LF	\$104.04	LM
Building Demo includes demolition, load, haul and dump fee				
Building, Small, Wood	\$0.58	CF	\$20.53	CM
Building, Small, Masonry	\$0.70	CF	\$24.64	CM
Haul, Rubbish, 10 mi. R/T	\$26.43	CY	\$34.56	CM
Relocate exist utility pole with wires - urban setting: (See NOTE: below)				
One Phase, with secondary	\$26,425.00	EA	\$26,425.00	EA
Three Phase, with secondary	\$52,850.00	EA	\$52,850.00	EA
Multiple circuits, with devices	\$79,275.00	EA	\$79,275.00	EA
NOTE: An written quote from the appropriate utility company defining/detailing the full scope of work required to accomplish relocation work may be submitted for review in lieu of these assigned prices.				
Relocate underground power				
Single phase, includes trenching	\$121.56	LF	\$398.80	LM
Three phase, includes trenching	\$243.11	LF	\$797.60	LM
Encased duct bank, includes cable	\$912.19	LF	\$2,992.75	LM
Remove traffic barricade	\$136.35	EA	\$136.35	EA

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CATEGORY	ENGLISH UNIT PRICE	UNIT	METRIC UNIT PRICE	UNIT
<u>LANDSCAPING</u>				
Plantings				
Shrubs				
12" 2 gallon	\$40.17	EA	\$40.17	EA
18" 3 gallon	\$50.74	EA	\$50.74	EA
24" 5 gallon	\$68.71	EA	\$68.71	EA
Trees				
Deciduous				
1.0 to 1.5" caliper	\$253.68	EA	\$253.68	EA
1.5 to 2.0" caliper	\$359.38	EA	\$359.38	EA
2.0 to 2.5" caliper	\$475.65	EA	\$475.65	EA
2.5 to 3.0 caliper	\$718.76	EA	\$718.76	EA
3.0 to 3.5 caliper	\$951.30	EA	\$951.30	EA
Evergreen				
5 to 6' in height	\$221.97	EA	\$221.97	EA
6 to 8' in height	\$401.66	EA	\$401.66	EA
8 to 10' in height	\$708.19	EA	\$708.19	EA
10 to 12' in height	\$951.30	EA	\$951.30	EA
Tree Well, Stone (D=10', H=3')	\$3,699.50	EA	\$3,699.50	EA

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CATEGORY	ENGLISH UNIT PRICE	UNIT	METRIC UNIT PRICE	UNIT
MISCELLANEOUS SITE IMPROVEMENTS				
Retaining Walls				
Dry rubble RW-1 (H ≤ 6 FT.)	\$443.94	LF	\$1,456.50	LM
Mortared rubble RW-1A (H ≤ 6 FT.)	\$549.64	LF	\$1,803.28	LM
Concrete gravity RW-2 (H ≤ 6 FT.)	\$338.24	LF	\$1,109.71	LM
Concrete gravity RW-3 (H ≤ 6 FT.)	\$380.52	LF	\$1,248.43	LM
Fencing				
Standard fence (H=5') FR-5	\$21.14	LF	\$69.36	LM
Farm fence (H=5') FR-3A	\$26.43	LF	\$86.70	LM
Chain-link fence (H=6') FR-2B	\$42.28	LF	\$138.71	LM
Board fence (H=6')	\$42.28	LF	\$138.71	LM
Snow fence	\$5.29	LF	\$17.34	LM
Remove and reset existing chain link fence	\$10.57	LF	\$34.68	LM
Recreational				
Picnic Table, (PA-2)	\$602.49	EA	\$602.49	EA
Tot Lot - Mulch Surface	\$8.46	SF	\$91.02	SM
Tot Lot - Synthetic Surface	\$16.91	SF	\$182.04	SM
Tot Lot Equipment, (PA 3-4)				
Stationary device300/100	\$6,342.00	EA	\$6,342.00	EA
Revolving device300/150	\$5,813.50	EA	\$5,813.50	EA
Swinging device450/200	\$5,285.00	EA	\$5,285.00	EA
Sliding device550/150	\$5,285.00	EA	\$5,285.00	EA
Ball Fields				
Little League infield (PA-5)	\$5,285.00	EA	\$5,285.00	EA
Baseball infield (PA-6)	\$14,798.00	EA	\$14,798.00	EA
Softball infield (PA-7)	\$10,570.00	EA	\$10,570.00	EA
Bleacher pad (PA-9)	\$13,972.48	EA	\$13,972.48	EA
Backstop (PA-10)	\$7,927.50	EA	\$7,927.50	EA
Player area: 6'H (PA-12)	\$4,891.80	EA	\$4,891.80	EA
Sideline fence (PA-13)				
4'H with 10 foot warning track	\$31.71	LF	\$104.04	LM
6'H with 10 foot warning track	\$39.11	LF	\$128.31	LM
Outfield fence (PA-13)				
6'H with 10 foot warning track	\$40.17	LF	\$131.78	LM
8'H with 10 foot warning track	\$42.28	LF	\$138.71	LM

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CATEGORY	ENGLISH UNIT PRICE	UNIT	METRIC UNIT PRICE	UNIT
Tennis Courts (2), PA-15 Thru 18	\$47,565.00	EA	\$47,565.00	EA
Tennis Practice Court and Wall, PA-19 to 23	\$21,140.00	EA	\$21,140.00	EA
Multi-Use Court & Equipment, PA 25 and 26	\$26,425.00	EA	\$26,425.00	EA
Soccer Field (includes grading)				
Seeded field	\$36,995.00	EA	\$36,995.00	EA
Sodded field	\$158,550.00	EA	\$158,550.00	EA
Swimming Pool				
Community	\$63.42	SF	\$682.65	SM
School (Olympic)	\$89.85	SF	\$967.08	SM
Miscellaneous Items:				
Painted metal bollards with concrete base	\$634.20	EA	\$634.20	EA
Trash pads 6" thick concrete	\$10.57	SF	\$113.77	SM
Trash enclosures-wood 6' high	\$31.71	LF	\$104.04	LM
Trash enclosures-brick/CMU 6' high	\$317.10	LF	\$1,040.35	LM
Trash receptacles-Victor Stanley Model S-45	\$1,057.00	EA	\$1,057.00	EA
Bike racks(4 bikes)	\$264.25	EA	\$264.25	EA
Bus shelter	\$21,140.00	EA	\$21,140.00	EA

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ROCK EXCAVATION IN TRENCHES, DE-WATERING, and SELECT BACKFILL
- THESE PRICES ARE UNIFORM FOR ALL PIPE TYPES -
STORM SEWER, SANITARY SEWER, AND WATER SERVICE

Storm sewer and facilities; Water line and facilities; and Sanitary sewer and facilities appear on the following pages beginning with page 9 and running through page 42.

Rock Excavation - in trenches:

Blast -				
less than 1,500 CY	\$105.70	CY	\$138.25	CM
greater than 1,500cy	\$84.56	CY	\$110.60	CM
Hoe ram -				
less than 1,500cy	\$132.13	CY	\$172.81	CM
greater than 1,500cy	\$105.70	CY	\$138.25	CM

Trench De-watering	\$2.64	LF	\$8.67	LM
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Select Backfill

0'-5' Deep (3"-12" pipe)	\$14.80	LF	\$48.55	LM
0'-6' Deep (12"-24" pipe)	\$25.37	LF	\$83.23	LM

STORM SEWER

NOTE:

All unit prices include trenching, pipe, bedding, and backfill

RCP, CLASS III ROUND T&G with MASTIC

8" Pipe Extra Strength Concrete

0'-8' Cut	\$30.65	LF	\$100.57	LM
8'-14' Cut	\$45.45	LF	\$149.12	LM

10" Pipe Extra Strength Concrete

0'-8' Cut	\$34.88	LF	\$114.44	LM
8'-14' Cut	\$51.79	LF	\$169.92	LM

12" Pipe

0'-8' Cut including O Ring	\$42.28	LF	\$138.71	LM
8'-14' Cut including O Ring	\$60.25	LF	\$197.67	LM
Pipe upgrade additional cost				
Class IV	\$0.53	LF	\$1.73	LM
Class V	\$1.06	LF	\$3.47	LM
"O" Ring	\$5.29	LF	\$17.34	LM

15" Pipe

0'-10' Cut including O Ring	\$47.57	LF	\$156.05	LM
10'-16' Cut including O Ring	\$75.05	LF	\$246.22	LM
Pipe upgrade additional cost				
Class IV	\$0.74	LF	\$2.43	LM
Class V	\$1.06	LF	\$3.47	LM
O Ring	\$5.29	LF	\$17.34	LM

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CATEGORY	ENGLISH UNIT PRICE	UNIT	METRIC UNIT PRICE	UNIT
18" Pipe				
0'-10' Cut including O Ring	\$57.40	LF	\$188.30	LM
10'-16' Cut including O Ring	\$88.05	LF	\$288.87	LM
Pipe upgrade additional cost				
Class IV	\$1.96	LF	\$6.42	LM
Class V	\$4.12	LF	\$13.52	LM
O Ring	\$6.66	LF	\$21.85	LM
21" Pipe				
0'-10' Cut including O Ring	\$71.88	LF	\$235.81	LM
10'-16' Cut including O Ring	\$103.59	LF	\$339.85	LM
Pipe upgrade additional cost				
Class IV	\$2.79	LF	\$9.16	LM
Class V	\$4.48	LF	\$14.70	LM
O Ring	\$12.68	LF	\$41.61	LM
24" Pipe				
0'-10' Cut including O Ring	\$82.45	LF	\$270.49	LM
10'-16' Cut including O Ring	\$110.99	LF	\$364.12	LM
Pipe upgrade additional cost				
Class IV	\$3.26	LF	\$10.68	LM
Class V	\$6.60	LF	\$21.64	LM
O Ring	\$13.74	LF	\$45.08	LM
27" Pipe				
0'-10' Cut including O Ring	\$75.05	LF	\$246.22	LM
10'-16' Cut including O Ring	\$104.64	LF	\$343.32	LM
Pipe upgrade additional cost				
Class IV	\$4.02	LF	\$13.18	LM
Class V	\$16.57	LF	\$54.38	LM
O Ring	\$14.80	LF	\$48.55	LM
30" Pipe				
0'-10' Cut including O Ring	\$99.36	LF	\$325.98	LM
10'-16' Cut including O Ring	\$140.58	LF	\$461.22	LM
Pipe upgrade additional cost				
Class IV	\$6.09	LF	\$19.97	LM
Class V	\$15.05	LF	\$49.38	LM
O Ring	\$16.91	LF	\$55.49	LM
33" Pipe				
0'-12' Cut including O Ring	\$130.01	LF	\$426.55	LM
10'-18' Cut including O Ring	\$183.92	LF	\$603.41	LM
Pipe upgrade additional cost				
Class IV	\$6.17	LF	\$20.25	LM
Class V	\$17.25	LF	\$56.60	LM
O Ring	\$21.14	LF	\$69.36	LM

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CATEGORY	ENGLISH UNIT PRICE	UNIT	METRIC UNIT PRICE	UNIT
36" Pipe				
0'-12' Cut including O Ring	\$138.47	LF	\$454.29	LM
12'-18' Cut including O Ring	\$196.60	LF	\$645.02	LM
Pipe upgrade additional cost				
Class IV	\$7.95	LF	\$26.08	LM
Class V	\$20.74	LF	\$68.04	LM
O Ring	\$22.20	LF	\$72.82	LM
42" Pipe				
0'-12' Cut including O Ring	\$172.29	LF	\$565.26	LM
12'-18' Cut including O Ring	\$242.05	LF	\$794.14	LM
Pipe upgrade additional cost				
Class IV	\$12.47	LF	\$40.92	LM
Class V	\$28.37	LF	\$93.08	LM
O Ring	\$34.88	LF	\$114.44	LM
48" Pipe				
0'-12' Cut including O Ring	\$198.21	LF	\$650.29	LM
12'-18' Cut including O Ring	\$264.80	LF	\$868.77	LM
Pipe upgrade additional cost				
Class IV	\$12.13	LF	\$39.81	LM
Class V	\$30.48	LF	\$100.01	LM
O Ring	\$42.83	LF	\$140.52	LM
54" Pipe				
0'-12' Cut including O Ring	\$233.60	LF	\$766.39	LM
12'-18' Cut including O Ring	\$323.44	LF	\$1,061.16	LM
Pipe upgrade additional cost				
Class IV	\$19.62	LF	\$64.36	LM
Class V	\$44.35	LF	\$145.51	LM
O Ring	\$43.34	LF	\$142.18	LM
60" Pipe				
0'-12' Cut including O Ring	\$275.88	LF	\$905.11	LM
12'-18' Cut including O Ring	\$390.03	LF	\$1,279.64	LM
Pipe upgrade additional cost				
Class IV	\$21.77	LF	\$71.44	LM
Class V	\$51.58	LF	\$169.23	LM
O Ring	\$47.57	LF	\$156.05	LM

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66" Pipe				
0'-12' Cut including O Ring	\$304.42	LF	\$998.74	LM
12'-18' Cut including O Ring	\$432.31	LF	\$1,418.35	LM
Pipe upgrade additional cost				
Class IV	\$30.27	LF	\$99.32	LM
Class V	\$65.45	LF	\$214.73	LM
O Ring	\$48.62	LF	\$159.52	LM
72" Pipe				
0'-14' Cut including O Ring	\$340.35	LF	\$1,116.65	LM
14'-20' Cut including O Ring	\$483.05	LF	\$1,584.81	LM
Pipe upgrade additional cost				
Class IV	\$39.79	LF	\$130.53	LM
Class V	\$75.77	LF	\$248.58	LM
O Ring	\$53.91	LF	\$176.86	LM
84" Pipe				
0'-14' Cut including O Ring	\$464.02	LF	\$1,522.39	LM
14'-20' Cut including O Ring	\$653.23	LF	\$2,143.13	LM
Pipe upgrade additional cost				
Class IV	\$52.70	LF	\$172.91	LM
Class V (custom fabricated)	\$94.07	LF	\$308.64	LM
O Ring	\$84.56	LF	\$277.43	LM
96" Pipe				
0'-14' Cut including O Ring	\$563.38	LF	\$1,848.36	LM
14'-20' Cut including O Ring	\$748.36	LF	\$2,455.24	LM
Pipe upgrade additional cost				
Class IV	\$63.42	LF	\$208.07	LM
Class V (custom fabricated)	\$118.38	LF	\$388.40	LM
O Ring	\$114.16	LF	\$374.53	LM
108" Pipe				
0'-14' Cut including O Ring	\$680.71	LF	\$2,233.29	LM
14'-20' Cut including O Ring	\$861.46	LF	\$2,826.30	LM
Pipe upgrade additional cost				
Class IV	\$81.39	LF	\$267.02	LM
Class V (custom fabricated)	\$140.58	LF	\$461.22	LM
O Ring	\$131.07	LF	\$430.01	LM

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<u>ROUND PIPE - CMP</u>				
CMP Plain 16 GA.				
6" Pipe				
0'-8' Cut	\$21.03	LF	\$69.01	LM
8'-14' Cut	\$42.67	LF	\$140.00	LM
8" Pipe				
0'-8' Cut	\$23.68	LF	\$77.68	LM
8'-14' Cut	\$45.35	LF	\$148.77	LM
Coated, Paved Invert	\$3.17	LF	\$10.40	LM
12" Pipe				
0'-8' Cut	\$28.33	LF	\$92.94	LM
8'-14' Cut	\$50.59	LF	\$165.97	LM
Coated, Paved Invert	\$5.29	LF	\$17.34	LM
15" Pipe				
0'-10' Cut	\$30.44	LF	\$99.87	LM
10'-16' Cut	\$65.53	LF	\$215.01	LM
Coated, Paved Invert	\$6.34	LF	\$20.81	LM
18" Pipe				
0'-10' Cut	\$39.11	LF	\$128.31	LM
10'-16' Cut	\$69.76	LF	\$228.88	LM
Coated, Paved Invert	\$7.40	LF	\$24.27	LM
21" Pipe				
0'-10' Cut	\$42.28	LF	\$138.71	LM
10'-16' Cut	\$73.99	LF	\$242.75	LM
Coated, Paved Invert	\$8.46	LF	\$27.74	LM
CMP Plain 14 GA.				
24" Pipe				
0'-10' Cut	\$47.57	LF	\$156.05	LM
10'-16' Cut	\$77.16	LF	\$253.15	LM
Coated, Paved Invert	\$9.51	LF	\$31.21	LM
30" Pipe				
0'-10' Cut	\$56.02	LF	\$183.80	LM
10'-16' Cut	\$85.62	LF	\$280.90	LM
Coated, Paved Invert	\$10.57	LF	\$34.68	LM

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CMP Plain 12 GA.				
36" Pipe				
0'-12' Cut	\$87.73	LF	\$287.83	LM
12'-18' Cut	\$131.07	LF	\$430.01	LM
Coated, Paved Invert	\$12.68	LF	\$41.61	LM
42" Pipe				
0'-12' Cut	\$94.07	LF	\$308.64	LM
12'-18' Cut	\$140.58	LF	\$461.22	LM
Coated, Paved Invert	\$14.80	LF	\$48.55	LM
48" Pipe				
0'-12' Cut	\$101.47	LF	\$332.91	LM
12'-18' Cut	\$152.21	LF	\$499.37	LM
Coated, Paved Invert	\$16.91	LF	\$55.49	LM
54" Pipe				
0'-12' Cut	\$112.04	LF	\$367.59	LM
12'-18' Cut	\$168.06	LF	\$551.39	LM
Coated, Paved Invert	\$16.91	LF	\$55.49	LM
60" Pipe				
0'-12' Cut	\$126.84	LF	\$416.14	LM
12'-18' Cut	\$190.26	LF	\$624.21	LM
Coated, Paved Invert	\$21.14	LF	\$69.36	LM
72" Pipe				
0'-14' Cut	\$288.56	LF	\$946.72	LM
14'-20' Cut	\$365.72	LF	\$1,199.88	LM
Coated, Paved Invert	\$26.43	LF	\$86.70	LM
84" Pipe				
0'-14' Cut	\$346.70	LF	\$1,137.45	LM
14'-20' Cut	\$507.36	LF	\$1,664.57	LM
Coated, Paved Invert	\$31.71	LF	\$104.04	LM
96" Pipe				
0'-14' Cut	\$378.41	LF	\$1,241.49	LM
14'-20' Cut	\$453.45	LF	\$1,487.71	LM
Coated, Paved Invert	\$37.00	LF	\$121.37	LM
108" Pipe				
0'-14' Cut	\$443.94	LF	\$1,456.50	LM
14'-20' Cut	\$528.50	LF	\$1,733.92	LM
Coated, Paved Invert	\$42.28	LF	\$138.71	LM

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CATEGORY	ENGLISH UNIT PRICE	UNIT	METRIC UNIT PRICE	UNIT
ELLIPTICAL PIPE - RCP CLASS III				
23" X 14" Elliptical Pipe (18" Equivalent)				
0'-10' Cut	\$71.88	LF	\$235.81	LM
10'-16' Cut	\$107.81	LF	\$353.72	LM
Pipe upgrade additional cost				
Class HE/IV	\$15.86	LF	\$52.02	LM
O Ring	\$42.28	LF	\$138.71	LM
30" X 19" Elliptical Pipe (24" equivalent)				
0'-10' Cut	\$89.85	LF	\$294.77	LM
10'-16' Cut	\$135.30	LF	\$443.88	LM
Pipe upgrade additional cost				
Class HE/IV	\$5.60	LF	\$18.38	LM
O Ring	\$42.28	LF	\$138.71	LM
38" X 24" Elliptical Pipe (30" equivalent)				
0'-10' Cut	\$115.21	LF	\$378.00	LM
10'-16' Cut	\$172.29	LF	\$565.26	LM
Pipe upgrade additional cost				
Class HE/IV	\$8.10	LF	\$26.56	LM
O Ring	\$50.74	LF	\$166.46	LM
45" X 29" Elliptical Pipe (36" equivalent)				
0'-10' Cut	\$161.72	LF	\$530.58	LM
10'-16' Cut	\$242.05	LF	\$794.14	LM
Pipe upgrade additional cost				
Class HE/IV	\$10.83	LF	\$35.55	LM
O Ring	\$52.85	LF	\$173.39	LM
53" X 34" Elliptical Pipe (42" equivalent)				
0'-12' Cut	\$207.17	LF	\$679.70	LM
10'-18' Cut	\$310.76	LF	\$1,019.55	LM
Pipe upgrade additional cost				
Class HE/IV	\$14.80	LF	\$48.55	LM
O Ring	\$58.14	LF	\$190.73	LM
60" X 38" Elliptical Pipe (48" equivalent)				
0'-12' Cut	\$256.85	LF	\$842.69	LM
10'-18' Cut	\$385.81	LF	\$1,265.76	LM
Pipe upgrade additional cost				
Class HE/IV	\$17.97	LF	\$58.95	LM
O Ring	\$69.76	LF	\$228.88	LM
76" X 48" Elliptical Pipe (60" equivalent)				
0'-12' Cut	\$383.69	LF	\$1,258.83	LM
10'-18' Cut	\$575.01	LF	\$1,886.51	LM
Pipe upgrade additional cost				
Class HE/IV	\$27.48	LF	\$90.16	LM
O Ring	\$79.28	LF	\$260.09	LM

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CATEGORY	ENGLISH UNIT PRICE	UNIT	METRIC UNIT PRICE	UNIT
<u>ELLIPTICAL PIPE - CMP</u>				
PLAIN, 16 GA				
23" X 14" Elliptical Pipe (18" equivalent)				
0'-10' Cut	\$43.34	LF	\$142.18	LM
10'-16' Cut	\$72.93	LF	\$239.28	LM
Coated, Paved Invert	\$5.55	LF	\$18.21	LM
PLAIN, 14 GA				
30" X 19" Elliptical Pipe (24" equivalent)				
0'-10' Cut	\$59.19	LF	\$194.20	LM
10'-16' Cut	\$90.90	LF	\$298.23	LM
Coated, Paved Invert	\$7.50	LF	\$24.62	LM
38" X 24" Elliptical Pipe (30" equivalent)				
0'-10' Cut	\$68.71	LF	\$225.41	LM
10'-16' Cut	\$103.59	LF	\$339.85	LM
Coated, Paved Invert	\$9.51	LF	\$31.21	LM
PLAIN, 12 GA				
45" X 29" Elliptical Pipe (36" equivalent)				
0'-10' Cut	\$80.33	LF	\$263.56	LM
10'-16' Cut	\$120.50	LF	\$395.33	LM
Coated, Paved Invert	\$11.63	LF	\$38.15	LM
53" X 34" Elliptical Pipe (42" equivalent)				
0'-12' Cut	\$102.53	LF	\$336.38	LM
10'-18' Cut	\$154.32	LF	\$506.31	LM
Coated, Paved Invert	\$13.48	LF	\$44.22	LM
60" X 38" Elliptical Pipe (48" equivalent)				
0'-12' Cut	\$114.16	LF	\$374.53	LM
10'-18' Cut	\$171.23	LF	\$561.79	LM
Coated, Paved Invert	\$15.22	LF	\$49.94	LM
<u>ARCH PIPE - CMP</u>				
PLAIN, 16 GA				
17" x 13" Pipe Arch (15" Equivalent)				
0'-10' Cut	\$43.34	LF	\$142.18	LM
10'-16' Cut	\$78.22	LF	\$256.62	LM
Coated, Paved Invert	\$5.29	LF	\$17.34	LM
21" x 15" Pipe Arch (18" Equivalent)				
0'-10' Cut	\$47.57	LF	\$156.05	LM
10'-16' Cut	\$80.33	LF	\$263.56	LM
Coated, Paved Invert	\$6.34	LF	\$20.81	LM

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CATEGORY	ENGLISH UNIT PRICE	UNIT	METRIC UNIT PRICE	UNIT
<u>PLAIN, 14 GA</u>				
24" x 18" Pipe Arch (21" Equivalent)				
0'-10' Cut	\$49.68	LF	\$162.99	LM
10'-16' Cut	\$80.33	LF	\$263.56	LM
Coated, Paved Invert	\$7.40	LF	\$24.27	LM
28" x 20" Pipe Arch (24" Equivalent)				
0'-10' Cut	\$60.25	LF	\$197.67	LM
10'-16' Cut	\$91.96	LF	\$301.70	LM
Coated, Paved Invert	\$7.93	LF	\$26.01	LM
35" x 24" Pipe Arch (30" Equivalent)				
0'-10' Cut	\$70.82	LF	\$232.35	LM
10'-16' Cut	\$83.50	LF	\$273.96	LM
Coated, Paved Invert	\$9.78	LF	\$32.08	LM
<u>PLAIN, 12 GA</u>				
42" x 29" Pipe Arch (36" Equivalent)				
0'-12' Cut	\$97.24	LF	\$319.04	LM
12'-18' Cut	\$138.47	LF	\$454.29	LM
Coated, Paved Invert	\$12.68	LF	\$41.61	LM
49" x 33" Pipe Arch (42" Equivalent)				
0'-12' Cut	\$110.99	LF	\$364.12	LM
12'-18' Cut	\$153.27	LF	\$502.84	LM
Coated, Paved Invert	\$14.80	LF	\$48.55	LM
57" x 38" Pipe Arch (48" Equivalent)				
0'-12' Cut	\$121.56	LF	\$398.80	LM
12'-18' Cut	\$167.01	LF	\$547.92	LM
Coated, Paved Invert	\$16.01	LF	\$52.54	LM
64" x 43" Pipe Arch (54" Equivalent)				
0'-12' Cut	\$136.35	LF	\$447.35	LM
12'-18' Cut	\$204.00	LF	\$669.29	LM
Coated, Paved Invert	\$19.03	LF	\$62.42	LM
71" x 47" Pipe Arch (60" Equivalent)				
0'-12' Cut	\$164.89	LF	\$540.98	LM
12'-18' Cut	\$247.34	LF	\$811.48	LM
Coated, Paved Invert	\$21.14	LF	\$69.36	LM
6'-9" x 4'-11" Pipe Arch (72" Equivalent)				
0'-14' Cut	\$238.88	LF	\$783.73	LM
14'-20' Cut	\$319.21	LF	\$1,047.29	LM

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CATEGORY	ENGLISH UNIT PRICE	UNIT	METRIC UNIT PRICE	UNIT
7'-11" x 5'-7" Pipe Arch (84" Equivalent)				
0'-14' Cut	\$267.42	LF	\$877.37	LM
14'-20' Cut	\$355.15	LF	\$1,165.20	LM
9'-4" x 6'-3" Pipe Arch (96" Equivalent)				
0'-14' Cut	\$302.30	LF	\$991.80	LM
14'-20' Cut	\$401.66	LF	\$1,317.78	LM
10'-8" x 6'-11" Pipe Arch (108" Equivalent)				
0'-14' Cut	\$350.92	LF	\$1,151.33	LM
14'-20' Cut	\$466.14	LF	\$1,529.32	LM
11'-10" x 7'-7" Pipe Arch (120" Equivalent)				
0'-14' Cut	\$375.24	LF	\$1,231.09	LM
14'-20' Cut	\$498.90	LF	\$1,636.82	LM
<u>HDPE PIPE</u>				
6" Pipe				
0'-8' Cut	\$25.11	LF	\$82.40	LM
8'-14' Cut	\$37.67	LF	\$123.59	LM
8" Pipe				
0'-8' Cut	\$28.13	LF	\$92.28	LM
8'-14' Cut	\$42.20	LF	\$138.44	LM
10" Pipe				
0'-8' Cut	\$33.82	LF	\$110.97	LM
8'-14' Cut	\$50.74	LF	\$166.46	LM
12" Pipe				
0'-8' Cut	\$38.05	LF	\$124.84	LM
8'-14' Cut	\$57.08	LF	\$187.26	LM
15" Pipe				
0'-10' Cut	\$49.68	LF	\$162.99	LM
10'-16' Cut	\$74.52	LF	\$244.48	LM
18" Pipe				
0'-10' Cut	\$65.53	LF	\$215.01	LM
10'-16' Cut	\$98.30	LF	\$322.51	LM
24" Pipe				
0'-10' Cut	\$76.53	LF	\$251.07	LM
10'-16' Cut	\$114.96	LF	\$377.16	LM

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CATEGORY	ENGLISH UNIT PRICE	UNIT	METRIC UNIT PRICE	UNIT
30" Pipe				
0'-10' Cut	\$90.90	LF	\$298.23	LM
10'-16' Cut	\$136.35	LF	\$447.35	LM
36" Pipe				
0'-10' Cut	\$100.89	LF	\$331.01	LM
10'-16' Cut	\$151.31	LF	\$496.42	LM
42" Pipe				
0'-10' Cut	\$113.42	LF	\$372.10	LM
10'-16' Cut	\$170.07	LF	\$557.98	LM
48" Pipe				
0'-10' Cut	\$128.95	LF	\$423.08	LM
10'-16' Cut	\$194.49	LF	\$638.08	LM
60" Pipe				
0'-10' Cut	\$178.10	LF	\$584.33	LM
10'-16' Cut	\$267.16	LF	\$876.50	LM

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CATEGORY	ENGLISH UNIT PRICE	UNIT	METRIC UNIT PRICE	UNIT
<u>STORM STRUCTURES</u>				
<u>END SECTIONS</u>				
End Section (ES-1), Concrete				
Pipe Size				
12"	\$451.34	EA	\$451.34	EA
15"	\$502.08	EA	\$502.08	EA
18"	\$618.35	EA	\$618.35	EA
21"	\$736.73	EA	\$736.73	EA
24"	\$776.90	EA	\$776.90	EA
27"	\$1,033.75	EA	\$1,033.75	EA
30"	\$1,139.45	EA	\$1,139.45	EA
36"	\$1,706.00	EA	\$1,706.00	EA
42"	\$1,734.54	EA	\$1,734.54	EA
48"	\$2,083.35	EA	\$2,083.35	EA
54"	\$2,777.80	EA	\$2,777.80	EA
60"	\$3,402.48	EA	\$3,402.48	EA
End Section (ES-2), CMP				
Pipe Size				
12"	\$165.95	EA	\$165.95	EA
15"	\$179.69	EA	\$179.69	EA
18"	\$198.72	EA	\$198.72	EA
21"	\$244.17	EA	\$244.17	EA
24"	\$290.68	EA	\$290.68	EA
30"	\$456.62	EA	\$456.62	EA
36"	\$857.23	EA	\$857.23	EA
42"	\$1,088.71	EA	\$1,088.71	EA
48"	\$1,352.96	EA	\$1,352.96	EA
54"	\$1,807.47	EA	\$1,807.47	EA
60"	\$2,524.12	EA	\$2,524.12	EA
End Section (ES-3), Arch Pipe - CMP				
Pipe Size				
17" x 13" (15"0)	\$183.92	EA	\$183.92	EA
21" x 15" (18"0)	\$189.20	EA	\$189.20	EA
24" x 18" (21"0)	\$241.00	EA	\$241.00	EA
28" x 20" (24"0)	\$287.50	EA	\$287.50	EA
35" x 24" (30"0)	\$379.46	EA	\$379.46	EA
42" x 24" (36"0)	\$619.40	EA	\$619.40	EA
49" x 33" (42"0)	\$822.35	EA	\$822.35	EA
57" x 38" (48"0)	\$966.10	EA	\$966.10	EA
64" x 43" (54"0)	\$1,422.72	EA	\$1,422.72	EA
71" x 47" (60"0)	\$1,788.44	EA	\$1,788.44	EA

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CATEGORY	ENGLISH UNIT PRICE	UNIT	METRIC UNIT PRICE	UNIT
<u>ENDWALLS</u>				
Endwalls (EW-1) Precast				
[Round pipe (12"-36")]				
Pipe Size				
12"	\$792.75	EA	\$792.75	EA
15"	\$845.60	EA	\$845.60	EA
18"	\$1,321.25	EA	\$1,321.25	EA
24"	\$2,008.30	EA	\$2,008.30	EA
30"	\$2,114.00	EA	\$2,114.00	EA
36"	\$2,325.40	EA	\$2,325.40	EA
Endwall (EW-1) Cast In Place				
[Round pipe (12"-36")]				
Pipe Size				
12"	\$634.20	EA	\$634.20	EA
15"	\$845.60	EA	\$845.60	EA
18"	\$1,004.15	EA	\$1,004.15	EA
24"	\$1,268.40	EA	\$1,268.40	EA
30"	\$2,114.00	EA	\$2,114.00	EA
36"	\$2,325.40	EA	\$2,325.40	EA
Endwall (EW-1A) Precast				
[Elliptical Pipe (18"-42" equivalent)]				
Pipe Size				
23" x 14" (18")	\$671.20	EA	\$671.20	EA
30" x 19" (24")	\$946.02	EA	\$946.02	EA
38" x 24" (30")	\$1,094.00	EA	\$1,094.00	EA
45" x 29" (36")	\$1,374.10	EA	\$1,374.10	EA
53" x 34" (42")	\$1,744.05	EA	\$1,744.05	EA
Endwall (EW-1A) Cast In Place				
[Elliptical Pipe (18"-42" equivalent)]				
Pipe Size				
23" x 14" (18")	\$619.40	EA	\$619.40	EA
30" x 19" (24")	\$892.11	EA	\$892.11	EA
38" x 24" (30")	\$1,215.55	EA	\$1,215.55	EA
45" x 29" (36")	\$1,587.61	EA	\$1,587.61	EA
53" x 34" (42")	\$2,065.38	EA	\$2,065.38	EA
Endwall (EW-2) Precast				
[Round pipe (42"-84")]				
Pipe Size				
42"	\$5,375.90	EA	\$5,375.90	EA
48"	\$5,653.89	EA	\$5,653.89	EA
54"	\$6,579.83	EA	\$6,579.83	EA
60"	\$7,039.62	EA	\$7,039.62	EA
72"	\$7,912.70	EA	\$7,912.70	EA
84"	\$9,432.67	EA	\$9,432.67	EA

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CATEGORY	ENGLISH UNIT PRICE	UNIT	METRIC UNIT PRICE	UNIT
Endwall (EW-2) Cast In Place [Pipe (42"-84")] Pipe Size				
42"	\$4,705.76	EA	\$4,705.76	EA
48"	\$5,986.85	EA	\$5,986.85	EA
54"	\$6,933.92	EA	\$6,933.92	EA
60"	\$8,146.30	EA	\$8,146.30	EA
72"	\$10,677.81	EA	\$10,677.81	EA
84"	\$12,250.63	EA	\$12,250.63	EA
Endwall (EW-2A) Cast In Place [Elliptical Pipe 60"x38" (48")] Pipe Size				
60" x 38" (48")	\$5,986.85	EA	\$5,986.85	EA
Endwall (EW-2PC) Precast [Pipe (42"- 48")] Pipe Size				
42"	\$5,375.90	EA	\$5,375.90	EA
48"	\$5,652.84	EA	\$5,652.84	EA
Endwall (EW-2APC) Precast [Elliptical Pipe 60"x38" (48")] Pipe Size				
60" x 38" (48")	\$5,708.86	EA	\$5,708.86	EA
Endwall (EW-6PC) Precast [Double Pipe (12"-36")] Pipe Size				
2-12"	\$829.75	EA	\$829.75	EA
2-15"	\$975.61	EA	\$975.61	EA
2-18"	\$1,142.62	EA	\$1,142.62	EA
2-24"	\$1,466.06	EA	\$1,466.06	EA
2-30"	\$2,114.00	EA	\$2,114.00	EA
2-36"	\$2,598.11	EA	\$2,598.11	EA
Endwall (EW-8) Cast in Place: [Right-angle pipe (12"-48")] Pipe Size				
12"	\$631.03	EA	\$631.03	EA
15"	\$801.21	EA	\$801.21	EA
18"	\$930.16	EA	\$930.16	EA
24"	\$1,295.88	EA	\$1,295.88	EA
30"	\$1,679.57	EA	\$1,679.57	EA
36"	\$2,157.34	EA	\$2,157.34	EA
42"	\$2,628.76	EA	\$2,628.76	EA
48"	\$3,153.03	EA	\$3,153.03	EA

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CATEGORY	ENGLISH UNIT PRICE	UNIT	METRIC UNIT PRICE	UNIT
Endwall (EW-8PC) Precast:				
[Right-angle pipe (12"-48")]				
Pipe Size				
12"	\$1,221.89	EA	\$1,221.89	EA
15"	\$1,321.25	EA	\$1,321.25	EA
18"	\$1,509.40	EA	\$1,509.40	EA
24"	\$1,671.12	EA	\$1,671.12	EA
30"	\$2,022.04	EA	\$2,022.04	EA
36"	\$2,371.91	EA	\$2,371.91	EA
42"	\$2,679.50	EA	\$2,679.50	EA
48"	\$3,018.79	EA	\$3,018.79	EA
Endwall (EW-9PC) Precast:				
[Arch Pipe (15"-48" equivalent)]				
Pipe Size				
17" x 13" (15")	\$794.86	EA	\$794.86	EA
21" x 15" (18")	\$970.33	EA	\$970.33	EA
24" x 18" (21")	\$1,124.65	EA	\$1,124.65	EA
28" x 20" (24")	\$1,268.40	EA	\$1,268.40	EA
35" x 24" (30")	\$1,391.01	EA	\$1,391.01	EA
42" x 29" (36")	\$1,700.71	EA	\$1,700.71	EA
49" x 33" (42")	\$2,458.58	EA	\$2,458.58	EA
57" x 38" (48")	\$2,612.90	EA	\$2,612.90	EA
Endwall (EW-10PC) Precast				
[Arch Pipe (15"-36" equivalent)]				
Pipe Size				
17" x 13" (15")	\$1,300.11	EA	\$1,300.11	EA
21" x 15" (18")	\$1,531.59	EA	\$1,531.59	EA
24" x 18" (21")	\$1,739.82	EA	\$1,739.82	EA
28" x 20" (24")	\$1,959.68	EA	\$1,959.68	EA
35" x 24" (30")	\$2,631.93	EA	\$2,631.93	EA
42" x 29" (36")	\$3,171.00	EA	\$3,171.00	EA

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CATEGORY	ENGLISH UNIT PRICE	UNIT	METRIC UNIT PRICE	UNIT
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MANHOLES

NOTE: As appropriate, additional costs - amount to add to unit costs below. ADD:

Watertight Frame/Cover	\$570.78	EA	\$570.78	EA
Heavy Duty Frame/Cover	\$591.92	EA	\$591.92	EA
Standard Brick Manhole - (MH-1)				
6' depth	\$3,805.20	EA	\$3,805.20	EA
Depth below 6'	\$158.55	VF	\$520.18	VM
Standard Precast Manhole - (MH-2)				
4 foot inside diameter				
6' depth	\$3,171.00	EA	\$3,171.00	EA
Depth below 6'	\$169.12	VF	\$554.86	VM

DROP INLETS

Cast in Place - 48"

Drop Inlet (DI-1) 12"-24" Pipe				
0-10 Vertical feet (VF)	\$3,673.08	EA	\$3,673.08	EA
Drop Inlet (DI-1A) 12"-24" Pipe				
10-20 VF	\$5,545.02	EA	\$5,545.02	EA
Drop Inlet (DI-2) 12"-24" Pipe				
0-10 VF, 10' throat	\$6,856.76	EA	\$6,856.76	EA
Drop Inlet (DI-2A) 12"-24" Pipe				
10-20 VF, 10' throat	\$8,764.64	EA	\$8,764.64	EA

Precast - 48"

Drop Inlet (DI-1PC) 12"-24" Pipe				
0-10 VF	\$3,673.08	EA	\$3,673.08	EA
Drop Inlet (DI-1APC) 12"-24" Pipe				
10-20 VF	\$5,956.20	EA	\$5,956.20	EA
Drop Inlet (DI-2PC) 12"-24" Pipe				
0-10 VF, 10' throat	\$6,573.48	EA	\$6,573.48	EA
Drop Inlet (DI-2APC) 12"-24" Pipe				
10-20 VF, 10' throat	\$8,398.92	EA	\$8,398.92	EA

CURB DROP INLETS - PRECAST

Curb Drop Inlet (DI-3A)

12"-30" Pipe				
(Invert depth (H)=0'-8')	\$4,031.08	EA	\$4,031.08	EA
Inlet length 2'-6"				

Curb Drop Inlet (DI-3AA)

12"-30" Pipe				
(Invert depth (H)=8'-20')	\$5,276.33	EA	\$5,276.33	EA
Inlet length 2'-6"				

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CATEGORY	ENGLISH UNIT PRICE	UNIT	METRIC UNIT PRICE	UNIT
Curb Drop Inlet (DI-3B & DI-12)				
12"-30" Pipe (Invert depth (H)=0'-8')				
Inlet length				
4'	\$4,247.34	EA	\$4,247.34	EA
6'	\$4,535.69	EA	\$4,535.69	EA
8'	\$4,855.44	EA	\$4,855.44	EA
10'	\$5,017.05	EA	\$5,017.05	EA
12'	\$5,178.67	EA	\$5,178.67	EA
16'	\$5,494.92	EA	\$5,494.92	EA
20'	\$5,814.66	EA	\$5,814.66	EA
Curb Drop Inlet (DI-3BB)				
12"-30" Pipe (Invert depth (H)=8'-20')				
Inlet length				
4'	\$4,221.76	EA	\$4,221.76	EA
6'	\$4,804.28	EA	\$4,804.28	EA
8'	\$5,386.79	EA	\$5,386.79	EA
10'	\$5,678.05	EA	\$5,678.05	EA
12'	\$5,969.30	EA	\$5,969.30	EA
16'	\$6,266.95	EA	\$6,266.95	EA
20'	\$6,564.60	EA	\$6,564.60	EA
Curb Drop Inlet (DI-3C)				
12"-30" Pipe (Invert depth (H)=0'-8')				
Inlet length				
6'	\$3,972.95	EA	\$3,972.95	EA
8'	\$4,555.46	EA	\$4,555.46	EA
10'	\$4,846.71	EA	\$4,846.71	EA
12'	\$5,137.97	EA	\$5,137.97	EA
16'	\$5,720.48	EA	\$5,720.48	EA
20'	\$6,303.00	EA	\$6,303.00	EA
Curb Drop Inlet (DI-3CC)				
12"-30" Pipe (Invert depth (H)=8'-20')				
Inlet length				
6'	\$4,706.61	EA	\$4,706.61	EA
8'	\$5,254.24	EA	\$5,254.24	EA
10'	\$5,598.98	EA	\$5,598.98	EA
12'	\$5,943.72	EA	\$5,943.72	EA
16'	\$6,735.52	EA	\$6,735.52	EA
20'	\$7,412.21	EA	\$7,412.21	EA
Curb Drop Inlet (DI-3D)				
12"-30" Pipe (Invert depth (H)=0'-8')				
Inlet length				
2'-6"	\$3,590.42	EA	\$3,590.42	EA

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CATEGORY	ENGLISH UNIT PRICE	UNIT	METRIC UNIT PRICE	UNIT
Curb Drop Inlet (DI-3DD)				
12"-30" Pipe				
(Invert depth (H)=8'-20')				
Inlet length				
2'-6"	\$4,308.50	EA	\$4,308.50	EA
Curb Drop Inlet (DI-3E)				
12"-30" Pipe				
(Invert depth (H)=0'-8')				
Inlet length				
4'	\$4,063.64	EA	\$4,063.64	EA
8'	\$4,713.59	EA	\$4,713.59	EA
10'	\$5,694.90	EA	\$5,694.90	EA
12'	\$5,369.35	EA	\$5,369.35	EA
16'	\$6,020.46	EA	\$6,020.46	EA
20'	\$6,677.39	EA	\$6,677.39	EA
Curb Drop Inlet (DI-3EE)				
12"-30" Pipe				
(Invert depth (H)=8'-20')				
Inlet length				
6'	\$7,509.88	EA	\$7,509.88	EA
8'	\$7,820.32	EA	\$7,820.32	EA
10'	\$7,972.63	EA	\$7,972.63	EA
12'	\$8,124.95	EA	\$8,124.95	EA
16'	\$8,429.58	EA	\$8,429.58	EA
20'	\$8,731.88	EA	\$8,731.88	EA
Curb Drop Inlet (DI-3F)				
12"-30" Pipe				
(Invert depth (H)=0'-8')				
Inlet length				
6'	\$3,735.76	EA	\$3,735.76	EA
8'	\$4,384.54	EA	\$4,384.54	EA
10'	\$4,713.59	EA	\$4,713.59	EA
12'	\$5,042.63	EA	\$5,042.63	EA
16'	\$5,691.42	EA	\$5,691.42	EA
20'	\$6,349.50	EA	\$6,349.50	EA

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CATEGORY	ENGLISH UNIT PRICE	UNIT	METRIC UNIT PRICE	UNIT
Curb Drop Inlet (DI-3FF)				
12"-30" Pipe				
(Invert depth (H)=8'-20')				
Inlet length				
6'	\$8,034.26	EA	\$8,034.26	EA
8'	\$8,242.38	EA	\$8,242.38	EA
10'	\$8,434.81	EA	\$8,434.81	EA
12'	\$8,627.23	EA	\$8,627.23	EA
16'	\$8,998.14	EA	\$8,998.14	EA
20'	\$9,398.10	EA	\$9,398.10	EA
Curb Drop Inlet (DI-4A)				
36"-48" Pipe				
(Invert depth (H)=0'-8')				
Inlet length				
4'	\$4,813.58	EA	\$4,813.58	EA
Curb Drop Inlet (DI-4AA)				
36"-48" Pipe				
(Invert depth (H)=8'-20')				
Inlet length				
4'	\$6,772.73	EA	\$6,772.73	EA
Curb Drop Inlet (DI-4B)				
36"-48" Pipe				
(Invert depth (H)=0'-8')				
Inlet length				
6'	\$5,126.34	EA	\$5,126.34	EA
8'	\$5,472.83	EA	\$5,472.83	EA
10'	\$5,646.65	EA	\$5,646.65	EA
12'	\$5,820.48	EA	\$5,820.48	EA
16'	\$6,168.12	EA	\$6,168.12	EA
20'	\$6,516.93	EA	\$6,516.93	EA
Curb Drop Inlet (DI-4BB)				
36"-48" Pipe				
(Invert depth (H)=8'-20')				
Inlet length				
6'	\$10,245.71	EA	\$10,245.71	EA
8'	\$10,587.55	EA	\$10,587.55	EA
10'	\$10,757.30	EA	\$10,757.30	EA
12'	\$10,927.05	EA	\$10,927.05	EA
16'	\$11,270.05	EA	\$11,270.05	EA
20'	\$11,610.72	EA	\$11,610.72	EA

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CATEGORY	ENGLISH UNIT PRICE	UNIT	METRIC UNIT PRICE	UNIT
Curb Drop Inlet (DI-4C)				
36"-48" Pipe (Invert depth (H)=0'-8') Inlet length				
8'	\$5,572.82	EA	\$5,572.82	EA
10'	\$5,747.33	EA	\$5,747.33	EA
12'	\$5,921.63	EA	\$5,921.63	EA
16'	\$6,266.95	EA	\$6,266.95	EA
20'	\$6,615.76	EA	\$6,615.76	EA
Curb Drop Inlet (DI-4CC)				
36"-48" Pipe (Invert depth (H)=8'-20') Inlet length				
8'	\$13,324.54	EA	\$13,324.54	EA
10'	\$13,656.49	EA	\$13,656.49	EA
12'	\$13,988.44	EA	\$13,988.44	EA
16'	\$14,650.02	EA	\$14,650.02	EA
20'	\$15,316.25	EA	\$15,316.25	EA
Curb Drop Inlet (DI-4D)				
36"-48" Pipe (Invert depth (H)=0'-8') Inlet length				
4'	\$4,872.88	EA	\$4,872.88	EA
Curb Drop Inlet (DI-4DD)				
36"-48" Pipe (Invert depth (H)=8'-16') Inlet length				
4'	\$9,395.78	EA	\$9,395.78	EA
Curb Drop Inlet (DI-4E)				
36"-48" Pipe (Invert depth (H)=0'-8') Inlet length				
6'	\$5,220.52	EA	\$5,220.52	EA
8'	\$5,567.01	EA	\$5,567.01	EA
10'	\$5,881.52	EA	\$5,881.52	EA
12'	\$6,196.03	EA	\$6,196.03	EA
16'	\$6,958.76	EA	\$6,958.76	EA
20'	\$7,652.89	EA	\$7,652.89	EA
Curb Drop Inlet (DI-4EE)				
36"-48" Pipe (Invert depth (H)=8'-16') Inlet length				
6'	\$9,131.85	EA	\$9,131.85	EA
8'	\$9,463.22	EA	\$9,463.22	EA
10'	\$9,795.17	EA	\$9,795.17	EA
12'	\$10,127.12	EA	\$10,127.12	EA
16'	\$10,778.23	EA	\$10,778.23	EA
20'	\$11,453.76	EA	\$11,453.76	EA

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Curb Drop Inlet (DI-4F)				
36"-48" Pipe (Invert depth (H)=0'-8')				
Inlet length				
8'	\$5,837.92	EA	\$5,837.92	EA
10'	\$6,185.56	EA	\$6,185.56	EA
12'	\$6,533.21	EA	\$6,533.21	EA
16'	\$7,228.51	EA	\$7,228.51	EA
20'	\$7,922.64	EA	\$7,922.64	EA
Curb Drop Inlet (DI-4FF)				
36"-48" Pipe (Invert depth (H)=8'-16')				
Inlet length				
8'	\$8,824.89	EA	\$8,824.89	EA
10'	\$9,110.92	EA	\$9,110.92	EA
12'	\$9,396.94	EA	\$9,396.94	EA
16'	\$9,970.15	EA	\$9,970.15	EA
20'	\$10,542.20	EA	\$10,542.20	EA
<u>MEDIAN DROP INLETS - CIP</u>				
Median Drop Inlet (DI-6A)				
12"-24" Pipe				
Inlet (H=8')	\$4,179.91	EA	\$4,179.91	EA
Median Drop Inlet (DI-6B)				
12"-24" Pipe				
Inlet (H=8')	\$4,240.37	EA	\$4,240.37	EA
Median Drop Inlet (DI-6C)				
30"-48" Pipe				
Inlet (H=10')	\$5,570.50	EA	\$5,570.50	EA
Median Drop Inlet (DI-6D)				
30"-48" Pipe				
Inlet (H=10')	\$5,662.35	EA	\$5,662.35	EA
Median Drop Inlet (DI-7) Type III Top				
12"-42" Pipe				
Inlet (H=10')	\$5,727.46	EA	\$5,727.46	EA
Median Drop Inlet (DI-7A) Type III Top				
12"-42" Pipe				
Inlet (H=10')	\$6,303.00	EA	\$6,303.00	EA
Median Drop Inlet (DI-7B) Type III Top				
12"-42" Pipe				
Inlet (H=10')	\$6,770.40	EA	\$6,770.40	EA

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CATEGORY	ENGLISH UNIT PRICE	UNIT	METRIC UNIT PRICE	UNIT
<u>MISCELLANEOUS INLETS</u>				
Ditch Drop Inlet, (DI-5) Type III Top 12"-42" Pipe				
Inlet (H=8')	\$5,199.59	EA	\$5,199.59	EA
Standard Yard Inlet (YI-1) 12"-48" Pipe (Invert depth (H)=0'-8')				
Inlet length 4' (No Aprons)	\$4,707.77	EA	\$4,707.77	EA
Add Yard Inlet Apron	\$246.49	THROAT	\$246.49	THROAT
Standard Yard Inlet (YI-2) 12"-48" Pipe (Invert depth (H)=0'-8')				
Inlet length 4' (No Aprons)	\$4,841.48	EA	\$4,841.48	EA
Add Yard Inlet Apron	\$246.49	THROAT	\$246.49	THROAT
Standard Yard Inlet (YI-3) 12"-48" Pipe (Invert depth (H)=0'-8')				
Inlet length 4' (No Aprons)	\$4,946.13	EA	\$4,946.13	EA
Add Yard Inlet Apron	\$246.49	THROAT	\$246.49	THROAT
<u>CULVERTS</u>				
Single Box Culvert (BC-1A) Fills to 25'				
Size				
4' x 4'	\$331.85	LF	\$1,088.73	LM
5' x 5'	\$412.07	LF	\$1,351.94	LM
6' x 6'	\$494.73	LF	\$1,623.13	LM
8' x 8'	\$688.00	LF	\$2,257.22	LM
10' x10'	\$838.73	LF	\$2,751.74	LM
Double Box Culvert (BC-2B) Fills to 25'				
Size				
4' x 4'	\$554.29	LF	\$1,818.54	LM
5' x 5'	\$692.86	LF	\$2,273.17	LM
6' x 6'	\$833.87	LF	\$2,735.79	LM
8' x 8'	\$1,106.15	LF	\$3,629.10	LM
10' x10'	\$1,385.73	LF	\$4,546.35	LM

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CATEGORY	ENGLISH UNIT PRICE	UNIT	METRIC UNIT PRICE	UNIT
Oversized Single Box Culvert (BBC-1) Fills to 25' Size				
12' x 6'	\$1,014.98	LF	\$3,330.00	LM
12' x 8'	\$1,120.74	LF	\$3,676.96	LM
12' x 10'	\$1,227.71	LF	\$4,027.91	LM
12' x 12'	\$1,334.67	LF	\$4,378.85	LM
Triple Box Culvert (BC-3B) Fills to 25' Size				
4' x 4'	\$762.15	LF	\$2,500.49	LM
5' x 5'	\$951.78	LF	\$3,122.62	LM
6' x 6'	\$1,191.24	LF	\$3,908.26	LM
8' x 8'	\$1,627.62	LF	\$5,339.97	LM
10' x 10'	\$2,472.43	LF	\$8,111.64	LM
Quadruple Box Culvert (BC-4B) Fills to 25' Size				
4' x 4'	\$976.09	LF	\$3,202.38	LM
5' x 5'	\$1,210.69	LF	\$3,972.07	LM
6' x 6'	\$1,517.01	LF	\$4,977.06	LM
8' x 8'	\$1,486.62	LF	\$4,877.35	LM
10' x 10'	\$2,824.94	LF	\$9,268.17	LM
Box Culverts on Piles (BC-P)				
Timber Piles - Treated (No mobilization)	\$22.14	LF	\$72.62	LM
Standard wing for Box Culvert (1 Side Only) Height of Box				
4'	\$670.98	EA	\$670.98	EA
5'	\$1,001.61	EA	\$1,001.61	EA
6'	\$1,334.67	EA	\$1,334.67	EA
8'	\$2,479.72	EA	\$2,479.72	EA
10'	\$3,307.51	EA	\$3,307.51	EA
Gravity Wing for Box Culvert (1 Side Only) Height of Box				
4'	\$839.95	EA	\$839.95	EA
5'	\$1,289.70	EA	\$1,289.70	EA
6'	\$1,717.57	EA	\$1,717.57	EA
8'	\$2,923.40	EA	\$2,923.40	EA
10'	\$3,488.10	EA	\$3,488.10	EA
Standard Wing for Oversized Box Culvert (BBC-W) Height of Box				
6'	\$1,322.52	EA	\$1,322.52	EA
8'	\$2,181.91	EA	\$2,181.91	EA
10'	\$3,255.24	EA	\$3,255.24	EA
12'	\$4,754.02	EA	\$4,754.02	EA

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CATEGORY	ENGLISH UNIT PRICE	UNIT	METRIC UNIT PRICE	UNIT
MISCELLANEOUS STORM				
Connection to Existing Structure				
6"-12" Pipe	\$337.92	EA	\$337.92	EA
15"-36" Pipe	\$729.33	EA	\$729.33	EA
42"-60" Pipe	\$1,118.31	EA	\$1,118.31	EA
Casing Pipe, Bore and Jack (3/8" wall)				
22" ID (6"-8" carrier pipe)	\$409.64	LF	\$1,343.96	LM
24" ID (10" carrier pipe)	\$448.54	LF	\$1,471.58	LM
30" ID (12" carrier pipe)	\$566.45	LF	\$1,858.42	LM
Plug Pipe				
6"-12" pipe	\$133.71	EA	\$133.71	EA
15"-36" Pipe	\$303.89	EA	\$303.89	EA
42"-60" pipe	\$486.22	EA	\$486.22	EA
Remove Pipe and Restore Trench (0'-10')				
6"-12" pipe	\$37.00	LF	\$121.37	LM
15"-36" Pipe	\$46.51	LF	\$152.59	LM
42"-60" pipe	\$84.56	LF	\$277.43	LM
Remove Pipe, Relay Existing Pipe in Another Trench, Restore Both Trenches (0'-10')				
6"-12" pipe	\$81.39	LF	\$267.02	LM
15"-36" Pipe	\$118.38	LF	\$388.40	LM
42"-60" pipe	\$211.40	LF	\$693.57	LM
Remove Old Pipe, New Pipe in Same Trench, Restore Trench (0'-10')				
6"-12" pipe (RCP)	\$46.51	LF	\$152.59	LM
15"-36" Pipe (RCP)	\$118.38	LF	\$388.40	LM
42"-60" pipe (RCP)	\$211.40	LF	\$693.57	LM
Shoring and piles (No mobilization)				
Treated Timber (12")	\$17.97	LF	\$58.95	LM
Untreated Timber (12")	\$14.80	LF	\$48.55	LM
Steel (10") (H Section)	\$34.88	LF	\$114.44	LM
Prestressed Conc (12")	\$25.37	LF	\$83.23	LM
Sheet	\$38.05	SF	\$409.59	SM
Remove piles:				
Timber	\$10.57	LF	\$34.68	LM
H piles - steel	\$16.11	LF	\$52.85	LM

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CATEGORY	ENGLISH UNIT PRICE	UNIT	METRIC UNIT PRICE	UNIT
Rip rap				
Dry, Class I, 18"	\$47.44	SY	\$56.74	SM
Dry, Class II, 18"	\$50.74	SY	\$60.68	SM
Dry, Class III, 18"	\$56.93	SY	\$68.09	SM
Grouted, Class I, 18"	\$69.76	SY	\$83.43	SM
Filter Fabric				
Class I	\$3.45	SY	\$4.12	SM
Class II	\$2.97	SY	\$3.55	SM
Class III	\$2.26	SY	\$2.71	SM
Gabions (No excavation)				
Mattress	\$128.95	CY	\$168.67	CM
Revetment	\$163.84	CY	\$214.29	CM
Wall	\$211.40	CY	\$276.50	CM
Paved Ditch - 4" Thick				
Concrete (Non-reinforced)	\$62.79	SY	\$75.09	SM
Bituminous concrete	\$27.48	SY	\$32.87	SM
Sodded Ditch (Incl Fine Grading)				
	\$9.51	SY	\$11.38	SM
<u>WATER SYSTEM</u>				
NOTE: All unit prices include trenching, pipe, bedding, and backfill				
Select Backfill				
0'-5' Deep (3"-12" pipe)	\$14.80	LF	\$48.55	LM
0'-6' Deep (12"-24" pipe)	\$25.37	LF	\$83.23	LM
DUCTILE IRON PIPE (DIP)				
Water Lines (1)				
3" DIP, Class 52	\$51.05	LF	\$167.50	LM
4" DIP, Class 52	\$55.43	LF	\$181.85	LM
6" DIP, Class 52	\$76.10	LF	\$249.69	LM
8" DIP, Class 52	\$85.62	LF	\$280.90	LM
10" DIP, Class 52	\$97.24	LF	\$319.04	LM
12" DIP, Class 52	\$116.27	LF	\$381.46	LM
14" DIP, Class 51	\$138.47	LF	\$454.29	LM
16" DIP, Class 51	\$154.32	LF	\$506.31	LM
18" DIP, Class 51	\$184.98	LF	\$606.87	LM
20" DIP, Class 51	\$243.11	LF	\$797.60	LM
24" DIP, Class 51	\$316.04	LF	\$1,036.89	LM

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MISCELLANEOUS				
Valve Assembly with valve box:				
3" Ball	\$319.74	EA	\$319.74	EA
4" Gate	\$573.21	EA	\$573.21	EA
6" Gate	\$755.76	EA	\$755.76	EA
8" Gate	\$988.30	EA	\$988.30	EA
10" Gate	\$1,278.97	EA	\$1,278.97	EA
12" Gate	\$1,627.78	EA	\$1,627.78	EA
14" Butterfly	\$3,488.10	EA	\$3,488.10	EA
16" Butterfly	\$4,534.53	EA	\$4,534.53	EA
18" Butterfly	\$5,348.42	EA	\$5,348.42	EA
20" Butterfly	\$7,325.01	EA	\$7,325.01	EA
24" Butterfly	\$9,185.33	EA	\$9,185.33	EA
Fire Hydrant Assembly complete:with 20 LF 6" Dip				
	\$3,762.92	EA	\$3,762.92	EA
Wet Tap of "Live" Line - Grass Area				
6" Tap	\$2,697.46	EA	\$2,697.46	EA
8" Tap	\$2,950.09	EA	\$2,950.09	EA
10" Tap	\$3,280.93	EA	\$3,280.93	EA
12" Tap	\$4,301.99	EA	\$4,301.99	EA
Tap in Street with patch (add-on to above price in Grass Area)	\$566.55	EA	\$566.55	EA
Casing pipe, bore and jack (3/8" wall T)				
16" ID	\$264.25	LF	\$866.96	LM
20" ID	\$307.59	LF	\$1,009.14	LM
22" ID	\$319.21	LF	\$1,047.29	LM
24" ID	\$380.52	LF	\$1,248.43	LM
30" ID	\$475.65	LF	\$1,560.53	LM
Jack Pit	\$3,699.50	EA	\$3,699.50	EA
Service Connection 1" (Includes corp. stop, tubing, meter	\$566.55	EA	\$566.55	EA

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CATEGORY	ENGLISH UNIT PRICE	UNIT	METRIC UNIT PRICE	UNIT
<u>SANITARY SEWER</u>				
Note: All pipe unit prices include trench excavation, bedding, pipe, and backfill				
Select Backfill				
0'-5' Deep (3"-12" pipe)	\$14.80	LF	\$48.55	LM
0'-6' Deep (12"-24" pipe)	\$25.37	LF	\$83.23	LM
PVC PIPE				
6" Pipe PVC with gravel				
0'-8' Cut	\$20.91	LF	\$68.59	LM
8'-14' Cut	\$48.01	LF	\$157.53	LM
Add for DIP Class 50	\$18.38	LF	\$60.30	LM
8" Pipe PVC				
0'-8' Cut	\$37.00	LF	\$121.37	LM
8'-14' Cut	\$72.93	LF	\$239.28	LM
Add for DIP Class 50	\$25.02	LF	\$82.07	LM
10" Pipe PVC				
0'-8' Cut	\$40.17	LF	\$131.78	LM
8'-14' Cut	\$73.99	LF	\$242.75	LM
Add for DIP Class 50	\$20.08	LF	\$65.88	LM
12" Pipe PVC				
0'-8' Cut	\$47.57	LF	\$156.05	LM
8'-14' Cut	\$100.42	LF	\$329.45	LM
Add for DIP Class 50	\$111.99	LF	\$367.42	LM
15" Pipe PVC				
0'-10' Cut	\$66.59	LF	\$218.47	LM
10'-16' Cut	\$100.42	LF	\$329.45	LM
Add for DIP 16" Class 50	\$43.35	LF	\$142.21	LM
18" Pipe PVC				
0'-10' Cut	\$69.76	LF	\$228.88	LM
10'-16' Cut	\$110.99	LF	\$364.12	LM
Add for DIP Class 50	\$51.34	LF	\$168.45	LM
21" Pipe PVC				
0'-10' Cut	\$95.13	LF	\$312.11	LM
10'-16' Cut	\$131.07	LF	\$430.01	LM
Add for DIP 20" Class 50	\$46.11	LF	\$151.27	LM
24" Pipe PVC				
0'-10' Cut	\$103.59	LF	\$339.85	LM
10'-16' Cut	\$139.52	LF	\$457.76	LM
Add for DIP Class 50	\$61.24	LF	\$200.92	LM
27" Pipe PVC				
0'-10' Cut	\$112.04	LF	\$367.59	LM
10'-16' Cut	\$158.55	LF	\$520.18	LM
Add for DIP Class 50	\$63.42	LF	\$208.07	LM

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CATEGORY	ENGLISH UNIT PRICE	UNIT	METRIC UNIT PRICE	UNIT
DIP (CLASS 50)				
30" Pipe				
0'-10' Cut	\$149.25	LF	\$489.67	LM
10'-16' Cut	\$178.22	LF	\$584.72	LM
Pipe upgrade additional cost				
Class 51	\$10.43	LF	\$34.21	LM
Class 52	\$20.93	LF	\$68.66	LM
Class 53	\$31.33	LF	\$102.79	LM
36" Pipe				
0'-10' Cut	\$196.60	LF	\$645.02	LM
10'-16' Cut	\$224.51	LF	\$736.57	LM
Pipe upgrade additional cost				
Class 51	\$14.35	LF	\$47.07	LM
Class 52	\$29.17	LF	\$95.71	LM
Class 53	\$46.88	LF	\$153.81	LM
42" Pipe				
0'-10' Cut	\$235.83	LF	\$773.73	LM
10'-16' Cut	\$271.31	LF	\$890.13	LM
Pipe upgrade additional cost				
Class 51	\$19.89	LF	\$65.25	LM
Class 52	\$39.78	LF	\$130.50	LM
Class 53	\$59.86	LF	\$196.38	LM
48" Pipe				
0'-10' Cut	\$287.93	LF	\$944.64	LM
10'-16' Cut	\$323.44	LF	\$1,061.16	LM
Pipe upgrade additional cost				
Class 51	\$30.09	LF	\$98.71	LM
Class 52	\$60.00	LF	\$196.84	LM
Class 53	\$88.38	LF	\$289.97	LM
54" Pipe				
0'-10' Cut	\$355.15	LF	\$1,165.20	LM
10'-16' Cut	\$388.13	LF	\$1,273.39	LM
Pipe upgrade additional cost				
Class 51	\$43.19	LF	\$141.70	LM
Class 52	\$75.22	LF	\$246.77	LM
Class 53	\$87.00	LF	\$285.43	LM

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CATEGORY	ENGLISH UNIT PRICE	UNIT	METRIC UNIT PRICE	UNIT
<u>RCP, CLASS III ROUND</u> <u>(WITH MODS FOR OTHER CLASSES)</u>				
12" Pipe				
0'-8' Cut including O Ring	\$47.57	LF	\$156.05	LM
8'-14' Cut including O Ring	\$65.53	LF	\$215.01	LM
Pipe upgrade additional cost				
Class IV	\$0.53	LF	\$1.73	LM
Class V	\$1.06	LF	\$3.47	LM
"O" Ring	\$5.29	LF	\$17.34	LM
15" Pipe				
0'-10' Cut including O Ring	\$50.74	LF	\$166.46	LM
10'-16' Cut including O Ring	\$73.99	LF	\$242.75	LM
Pipe upgrade additional cost				
Class IV	\$0.74	LF	\$2.43	LM
Class V	\$1.06	LF	\$3.47	LM
O Ring	\$5.29	LF	\$17.34	LM
18" Pipe				
0'-10' Cut including O Ring	\$57.40	LF	\$188.30	LM
10'-16' Cut including O Ring	\$91.22	LF	\$299.28	LM
Pipe upgrade additional cost				
Class IV	\$1.96	LF	\$6.42	LM
Class V	\$4.12	LF	\$13.52	LM
O Ring	\$6.66	LF	\$21.85	LM
21" Pipe				
0'-10' Cut including O Ring	\$73.99	LF	\$242.75	LM
10'-16' Cut including O Ring	\$114.16	LF	\$374.53	LM
Pipe upgrade additional cost				
Class IV	\$2.79	LF	\$9.16	LM
Class V	\$4.48	LF	\$14.70	LM
O Ring	\$12.68	LF	\$41.61	LM
24" Pipe				
0'-10' Cut including O Ring	\$80.33	LF	\$263.56	LM
10'-16' Cut including O Ring	\$121.56	LF	\$398.80	LM
Pipe upgrade additional cost				
Class IV	\$3.26	LF	\$10.68	LM
Class V	\$6.60	LF	\$21.64	LM
O Ring	\$13.74	LF	\$45.08	LM
27" Pipe				
0'-10' Cut including O Ring	\$85.62	LF	\$280.90	LM
10'-16' Cut including O Ring	\$132.13	LF	\$433.48	LM
Pipe upgrade additional cost				
Class IV	\$4.02	LF	\$13.18	LM
Class V	\$16.57	LF	\$54.38	LM
O Ring	\$14.80	LF	\$48.55	LM

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CATEGORY	ENGLISH UNIT PRICE	UNIT	METRIC UNIT PRICE	UNIT
30" Pipe				
0'-10' Cut including O Ring	\$109.93	LF	\$360.66	LM
10'-16' Cut including O Ring	\$164.89	LF	\$540.98	LM
Pipe upgrade additional cost				
Class IV	\$6.09	LF	\$19.97	LM
Class V	\$15.05	LF	\$49.38	LM
O Ring	\$16.91	LF	\$55.49	LM
33" Pipe				
0'-12' Cut including O Ring	\$151.15	LF	\$495.90	LM
10'-18' Cut including O Ring	\$215.63	LF	\$707.44	LM
Pipe upgrade additional cost				
Class IV	\$6.17	LF	\$20.25	LM
Class V	\$17.25	LF	\$56.60	LM
O Ring	\$21.14	LF	\$69.36	LM
36" Pipe				
0'-12' Cut including O Ring	\$173.35	LF	\$568.73	LM
12'-18' Cut including O Ring	\$223.03	LF	\$731.72	LM
Pipe upgrade additional cost				
Class IV	\$7.95	LF	\$26.08	LM
Class V	\$20.74	LF	\$68.04	LM
O Ring	\$22.20	LF	\$72.82	LM
42" Pipe				
0'-12' Cut including O Ring	\$193.43	LF	\$634.62	LM
12'-18' Cut including O Ring	\$262.14	LF	\$860.03	LM
Pipe upgrade additional cost				
Class IV	\$12.47	LF	\$40.92	LM
Class V	\$28.37	LF	\$93.08	LM
O Ring	\$34.88	LF	\$114.44	LM
48" Pipe				
0'-12' Cut including O Ring	\$240.49	LF	\$789.00	LM
12'-18' Cut including O Ring	\$270.08	LF	\$886.10	LM
Pipe upgrade additional cost				
Class IV	\$12.13	LF	\$39.81	LM
Class V	\$30.48	LF	\$100.01	LM
O Ring	\$42.83	LF	\$140.52	LM
54" Pipe				
0'-12' Cut including O Ring	\$254.74	LF	\$835.75	LM
12'-18' Cut including O Ring	\$323.44	LF	\$1,061.16	LM
Pipe upgrade additional cost				
Class IV	\$19.62	LF	\$64.36	LM
Class V	\$44.35	LF	\$145.51	LM
O Ring	\$43.34	LF	\$142.18	LM

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CATEGORY	ENGLISH UNIT PRICE	UNIT	METRIC UNIT PRICE	UNIT
60" Pipe				
0'-12' Cut including O Ring	\$275.88	LF	\$905.11	LM
12'-18' Cut including O Ring	\$390.03	LF	\$1,279.64	LM
Pipe upgrade additional cost				
Class IV	\$21.77	LF	\$71.44	LM
Class V	\$51.58	LF	\$169.23	LM
O Ring	\$47.57	LF	\$156.05	LM
66" Pipe				
0'-12' Cut including O Ring	\$304.42	LF	\$998.74	LM
12'-18' Cut including O Ring	\$432.31	LF	\$1,418.35	LM
Pipe upgrade additional cost				
Class IV	\$30.27	LF	\$99.32	LM
Class V	\$65.45	LF	\$214.73	LM
O Ring	\$48.62	LF	\$159.52	LM
72" Pipe				
0'-14' Cut including O Ring	\$340.35	LF	\$1,116.65	LM
14'-20' Cut including O Ring	\$483.05	LF	\$1,584.81	LM
Pipe upgrade additional cost				
Class IV	\$39.79	LF	\$130.53	LM
Class V	\$75.77	LF	\$248.58	LM
O Ring	\$53.91	LF	\$176.86	LM
84" Pipe				
0'-14' Cut including O Ring	\$464.02	LF	\$1,522.39	LM
14'-20' Cut including O Ring	\$653.23	LF	\$2,143.13	LM
Pipe upgrade additional cost				
Class IV	\$52.70	LF	\$172.91	LM
Class V (custom fabricated)	\$94.07	LF	\$308.64	LM
O Ring	\$84.56	LF	\$277.43	LM
96" Pipe				
0'-14' Cut including O Ring	\$563.38	LF	\$1,848.36	LM
14'-20' Cut including O Ring	\$748.36	LF	\$2,455.24	LM
Pipe upgrade additional cost				
Class IV	\$63.42	LF	\$208.07	LM
Class V (custom fabricated)	\$118.38	LF	\$388.40	LM
O Ring	\$114.16	LF	\$374.53	LM
108" Pipe				
0'-14' Cut including O Ring	\$680.71	LF	\$2,233.29	LM
14'-20' Cut including O Ring	\$861.46	LF	\$2,826.30	LM
Pipe upgrade additional cost				
Class IV	\$81.39	LF	\$267.02	LM
Class V (custom fabricated)	\$140.58	LF	\$461.22	LM
O Ring	\$131.07	LF	\$430.01	LM

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CATEGORY	ENGLISH UNIT PRICE	UNIT	METRIC UNIT PRICE	UNIT
<u>SANITARY SEWER STRUCTURES</u>				
Standard Precast Manhole				
Additional Costs: As appropriate, additional cost to be added to the unit prices below. ADD:				
Watertight frame and cover	\$486.22	EA	\$486.22	EA
Heavy duty frame and cover	\$570.78	EA	\$570.78	EA
Manhole vent: 4" diameter, 6' high	\$623.63	EA	\$623.63	EA
3' Inside diameter (ID)				
Manhole base	\$422.80	EA	\$422.80	EA
Manhole vertical depth	\$150.09	VLF	\$492.43	VLM
Manhole top	\$317.10	EA	\$317.10	EA
4' ID				
Manhole base	\$528.50	EA	\$528.50	EA
Manhole vertical depth	\$174.41	VLF	\$572.19	VLM
Manhole top	\$422.80	EA	\$422.80	EA
5' ID				
Manhole base	\$634.20	EA	\$634.20	EA
Manhole vertical depth	\$294.90	VLF	\$967.53	VLM
Manhole top	\$528.50	EA	\$528.50	EA
6' ID				
Manhole base	\$792.75	EA	\$792.75	EA
Manhole vertical depth	\$403.77	VLF	\$1,324.72	VLM
Manhole top	\$634.20	EA	\$634.20	EA
7' ID				
Manhole base	\$1,014.72	EA	\$1,014.72	EA
Manhole vertical depth	\$612.00	VLF	\$2,007.88	VLM
Manhole top	\$1,035.86	EA	\$1,035.86	EA
8' ID				
Manhole base	\$1,585.50	EA	\$1,585.50	EA
Manhole vertical depth	\$875.20	VLF	\$2,871.38	VLM
Manhole top	\$1,648.92	EA	\$1,648.92	EA
9' ID				
Manhole base	\$1,902.60	EA	\$1,902.60	EA
Manhole vertical depth	\$928.05	VLF	\$3,044.77	VLM
Manhole top	\$1,691.20	EA	\$1,691.20	EA
10' ID				
Manhole base	\$2,378.25	EA	\$2,378.25	EA
Manhole vertical depth	\$1,078.14	VLF	\$3,537.20	VLM
Manhole top	\$2,114.00	EA	\$2,114.00	EA

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CATEGORY	ENGLISH UNIT PRICE	UNIT	METRIC UNIT PRICE	UNIT
<u>PUMPING STATION SEWER</u>				
Drywell Type, 8' ID with standby generator and 8 foot diameter wetwell				
Concrete	\$512,645.00	LS	\$512,645.00	LS
Steel	\$512,645.00	LS	\$512,645.00	LS
Fiberglass	\$512,645.00	LS	\$512,645.00	LS
Wetwell Type with stand by generator				
Submersible Pumps in 6 foot diameter wetwell	\$245,224.00	LS	\$245,224.00	LS
Simplex Grinder Pump in 4 foot diameter wetwell	\$26,425.00	LS	\$26,425.00	LS
Duplex Grinder Pump in 4 foot diameter wetwell	\$31,181.50	LS	\$31,181.50	LS
<u>MISCELLANEOUS SEWER</u>				
Connection to Existing Manhole 8" core bore	\$1,057.00	EA	\$1,057.00	EA
Standard External Drop Connection To Manhole, CI Includes Cast Iron Items:				
Bend - 2 Each				
Wye - 1 Each				
Extra Core Bore - 1 Each				
8" Pipe	\$591.92	EA	\$591.92	EA
10" Pipe	\$803.32	EA	\$803.32	EA
12" Pipe	\$940.73	EA	\$940.73	EA
15" Pipe	\$1,479.80	EA	\$1,479.80	EA
Internal Drop Connection to Manhole				
8" Pipe PVC	\$634.20	EA	\$634.20	EA
Lateral Spur, with clean out and connection to new main				
4" diameter, greater than 10' deep	\$46.51	VF	\$152.59	VM
Connect to existing main with clean out	\$1,585.50	EA	\$1,585.50	EA
Standard Concrete Encasement				
8" Pipe	\$45.45	LF	\$149.12	LM
10" Pipe	\$51.79	LF	\$169.92	LM
12" Pipe	\$56.02	LF	\$183.80	LM
15" Pipe	\$64.48	LF	\$211.54	LM
18" Pipe	\$71.88	LF	\$235.81	LM
21" Pipe	\$80.33	LF	\$263.56	LM
Concrete Pier for Storm Drainage Crossing Sanitary Sewer				
6" Pipe	\$116.27	EA	\$116.27	EA
15" Pipe	\$161.62	EA	\$161.62	EA
27" Pipe	\$270.91	EA	\$270.91	EA
Casing Pipe, Bore and Jack (3/8" wall thickness)				
22" ID (8" carrier pipe)	\$422.80	LF	\$1,387.14	LM
24" ID (10" carrier pipe)	\$492.56	LF	\$1,616.02	LM
30" ID (12" carrier pipe)	\$591.92	LF	\$1,941.99	LM

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CATEGORY	ENGLISH UNIT PRICE	UNIT	METRIC UNIT PRICE	UNIT
Tunnel: Liner Plate (8 Gauge)				
48" OD (15"-18" carrier pipe)	\$860.40	LF	\$2,822.83	LM
54" OD (21"-24" carrier pipe)	\$1,003.09	LF	\$3,290.99	LM
60" OD (27"-30" carrier pipe)	\$1,278.97	LF	\$4,196.10	LM
66" OD (33"-36" carrier pipe)	\$1,488.26	LF	\$4,882.73	LM
72" OD (42" carrier pipe)	\$1,697.54	LF	\$5,569.36	LM
78" OD (48" carrier pipe)	\$1,912.11	LF	\$6,273.34	LM
84" OD (54" carrier pipe)	\$2,133.03	LF	\$6,998.12	LM
Force Main: DIP (0'-6' Cut)				
Pipe Size				
4"	\$23.04	LF	\$75.60	LM
6"	\$28.75	LF	\$94.33	LM
8"	\$34.75	LF	\$114.02	LM
10"	\$38.25	LF	\$125.50	LM
12"	\$45.77	LF	\$150.16	LM
14"	\$62.36	LF	\$204.60	LM
16"	\$74.62	LF	\$244.83	LM
Air Relief Valve (No manhole)				
1-1/4" Valve	\$266.36	EA	\$266.36	EA
1-1/2" Valve	\$342.47	EA	\$342.47	EA
2" Valve	\$494.68	EA	\$494.68	EA
2-1/2" Valve	\$743.07	EA	\$743.07	EA
3" Valve	\$940.73	EA	\$940.73	EA
4" Valve	\$1,264.17	EA	\$1,264.17	EA
6" Valve	\$2,785.20	EA	\$2,785.20	EA
Precast 36" manhole with cover (H=4') - Class B concrete for unsuitable foundation material				
Foundation material A4	\$528.50	CY	\$691.25	CM
Foundation material A3	\$792.75	CY	\$1,036.88	CM
Pump around - temporary				
8" line each location	\$10,570.00	MONTH	\$10,570.00	MONTH

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CATEGORY	ENGLISH UNIT PRICE	UNIT	METRIC UNIT PRICE	UNIT
<u>ROADS AND PARKING</u>				
Soil Stabilization				
Cement (6" depth) 6%	\$15.86	SY	\$18.96	SM
Lime (6" depth) 6%	\$10.57	SY	\$12.64	SM
Subbase, Aggregate Material				
Base, Type I, 6"	\$9.51	SY	\$11.38	SM
Base, Type I, 8"	\$11.63	SY	\$13.91	SM
Bituminous Concrete, Base Course				
BM-25.0A up to 3"	\$19.03	SY	\$22.75	SM
Above 3" ADD to the above price:				
Rate Per Inch, Per Square Yard				
BM-25.A over 3" (Per Inch)	\$4.12	SY	\$4.93	SM
Bituminous Concrete, Top Course				
All IM & SM up to 2"	\$10.57	SY	\$12.64	SM
Above 2" ADD to the above price:				
Rate Per Inch, Per Square Yard				
IM-19.0A (formerly 1M-1A)	\$4.69	SY	\$5.61	SM
SM-9.5A (formerly SM-2A)	\$4.69	SY	\$5.61	SM
SM-9.0A (formerly SM-1)	\$4.69	SY	\$5.61	SM
SM-9.5D (formerly SM2C/D)	\$4.69	SY	\$5.61	SM
Prime Coat	\$1.06	SY	\$1.26	SM
Tack Coat	\$1.06	SY	\$1.26	SM
Surface Treatment				
Double seal	\$3.17	SY	\$3.79	SM
Cover Material				
No. 8	\$2.75	SY	\$3.29	SM
No. 68	\$2.62	SY	\$3.14	SM
No. 78	\$2.49	SY	\$2.98	SM
Concrete Pavement				
Portland Cement, WWF, 6" Gravel				
7"	\$95.13	SY	\$113.77	SM
8"	\$104.64	SY	\$125.15	SM
9"	\$112.04	SY	\$134.00	SM
Portland Cement, reinforced, 6" Gravel (Rebar #4, 12" OC/EW)				
8"	\$139.52	SY	\$166.87	SM
9"	\$147.98	SY	\$176.98	SM

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Driveway Restoration				
4" concrete over 4" gravel	\$80.07	SY	\$95.76	SM
2" S-5 6" Gravel	\$31.71	SY	\$37.92	SM
Shoulders, Type I				
Aggregate base, 4"	\$10.57	SY	\$12.64	SM
Concrete Curbing				
Concrete Curbs CG2&CG3	\$21.14	LF	\$69.36	LM
Concrete Curb & Gutter CG6&7	\$22.20	LF	\$72.82	LM
Street Intersection CG-10A				
Curb Cut, CG-12 with exposed aggregate	\$528.50	EA	\$528.50	EA
Entrances/Driveways				
Entrance, CG-9	\$51.48	SY	\$61.56	SM
Commercial, CG-11	\$52.51	SY	\$62.80	SM
Commercial, CG-13	\$64.31	SY	\$76.91	SM
Standard driveway, C&G/Sidewalk 4 transition DE-1	\$1,374.10	EA	\$1,374.10	EA
Standard driveway, no curb, D-5 (DE-5)	\$51.48	SY	\$61.56	SM
Guardrails				
Standard blocked-out W beam strong post, GR2	\$42.28	LF	\$138.71	LM
Standard W beam, Weak Post GR8	\$27.48	LF	\$90.16	LM
Terminal, GR-6 (L=12'-6")	\$2,906.75	EA	\$2,906.75	EA
Terminal, GR-7 (L=6'-3")	\$2,642.50	EA	\$2,642.50	EA
Type I, GR-8 Terminal (L=25')	\$1,374.10	EA	\$1,374.10	EA
Type II, GR-8 Terminal (L=13'-6")	\$663.80	EA	\$663.80	EA
Median Barrier, MB-3 (L=6'-3")	\$277.99	EA	\$277.99	EA
Median Barrier, MB-3 (L=12'-6")	\$459.80	EA	\$459.80	EA
Terminal, MB-4 (L=37'-6")	\$3,488.10	EA	\$3,488.10	EA
Type I, MB-5 Terminal (L=27'-1")	\$2,906.75	EA	\$2,906.75	EA
Type II, MB-5 Terminal (L=13'-6")	\$1,585.50	EA	\$1,585.50	EA
Miscellaneous				
Pipe stem from ditch, PS-1	\$36.99	SY	\$44.24	SM
Pipe stem from C&G, PS-1	\$36.99	SY	\$44.24	SM
Sign island	\$792.75	EA	\$792.75	EA
TB-1 Barricade	\$42.28	LF	\$138.71	LM
Street name signs	\$422.80	EA	\$422.80	EA
Traffic control signs	\$369.95	EA	\$369.95	EA
Street lighting, including pole, bracket and light	\$4,228.00	EA	\$4,228.00	EA
Slope erosion, Control MC-3A Straight	\$4.76	LF	\$15.61	LM
6" Pipe at Edge of Pavement	\$17.63	LF	\$57.84	LM
Initial Street Acceptance Package	\$3,699.50	LS	\$3,699.50	LS
Complete CE-7 package	\$3,266.13	LS	\$3,266.13	LS
Final Street Acceptance package	\$2,051.00	LS	\$2,051.00	LS

COUNTY OF FAIRFAX, VIRGINIA
DEPARTMENT OF PUBLIC WORKS ENVIRONMENTAL SERVICES
LAND DEVELOPMENT SERVICES
2009 COMPREHENSIVE UNIT PRICE SCHEDULE
EFFECTIVE FEBRUARY 1, 2009

CATEGORY	ENGLISH UNIT PRICE	UNIT	METRIC UNIT PRICE	UNIT
<u>SIDEWALKS AND TRAILS</u>				
Sidewalk				
Concrete 4" with WWF and no base	\$44.39	SY	\$53.09	SM
Bituminous concrete -2" with 4" base	\$29.60	SY	\$35.40	SM
Concrete 4" - no reinforcement and no base	\$40.86	SY	\$48.87	SM
Underdrains, Sidewalk (UD-3)	\$16.11	LF	\$52.85	LM
Handrail 3 rail 1-1/4" #4 finish	\$95.13	LF	\$312.11	LM
Concrete yard steps with railings				
4' wide, 3 steps	\$1,268.40	EA	\$1,268.40	EA
4' wide, 5 steps	\$1,849.75	EA	\$1,849.75	EA
Pedestrian bridge, prefabricated				
Steel frame with wood deck (PA-1)				
4' wide	\$634.20	LF	\$2,080.71	LM
8' wide	\$951.30	LF	\$3,121.06	LM
Bridge abutments				
4' wide	\$2,642.50	EA	\$2,642.50	EA
8' wide	\$4,756.50	EA	\$4,756.50	EA
Fair weather crossing	\$1,488.26	LF	\$4,882.73	LM
Trails - INCLUDES excavation and grading				
Wood chip, 4' wide	\$17.33	SY	\$20.73	SM
Bituminous concrete - Type I, TX-2				
Up to 10' wide	\$48.62	SY	\$58.15	SM
Stone dust with blue stone chip base				
Type II, TX-2, 6' wide	\$13.21	SY	\$15.80	SM
Seal coat with 4" soil cement base				
Type III, TX-2, 6' Wide	\$15.86	SY	\$18.96	SM
Concrete trail with gravel base				
Type IV, 4' - 6' Wide	\$57.08	SY	\$68.26	SM
Earth trail, Type VI, 6' Wide	\$12.68	SY	\$15.17	SM
Woodchip trail with gravel base				
Type VII, 6' - 8' Wide	\$15.86	SY	\$18.96	SM

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<u>CRITICAL SLOPE STABILIZATION</u>				
EROSION CONTROL				
Paved flume	\$66.59	SY	\$79.64	SM
Stormwater channel excavation	\$7.40	SY	\$8.85	SM
Additional Costs: Amount below to be added to the unit cost above. ADD:				
Grass lined-seeded	\$5.29	SY	\$6.32	SM
Grass lined-sodded	\$10.57	SY	\$12.64	SM
Rip rap 12", not grouted	\$42.28	SY	\$50.57	SM
Rip rap 18", not grouted	\$50.74	SY	\$60.68	SM
Concrete slopes	\$95.13	SY	\$113.77	SM
Outlet Protection				
Non-grouted rip rap , 18"	\$50.74	SY	\$60.68	SM
Grouted rip rap , 18"	\$63.42	SY	\$75.85	SM
Concrete 4"	\$47.57	SY	\$56.89	SM
Rip rap 18", not grouted	\$48.62	SY	\$58.15	SM
Level Spreader	\$4.23	SY	\$5.06	SM
Structural Streambank Protection				
Non-grouted rip rap 18"	\$56.02	SY	\$67.00	SM
Grouted rip rap 18"	\$73.99	SY	\$88.49	SM
Gabions	\$147.98	CY	\$193.55	CM
Biologs with live stakes	\$15.86	LF	\$52.02	LM
Deflectors				
Gabions	\$175.46	CY	\$229.50	CM
Log cribbing	\$73.99	LF	\$242.75	LM
Grid pavers	\$95.13	SY	\$113.77	SM
Vegetative Erosion Control				
Sodding includes fertilizing - banks	\$7.40	SY	\$8.85	SM
Sodding includes fertilizing - flat	\$5.29	SY	\$6.32	SM
Seeding includes fertilizing	\$2.11	SY	\$2.53	SM
Seeding with soil treatment and watering	\$3.17	SY	\$3.79	SM
Sodding with soil treatment and watering	\$6.34	SY	\$7.58	SM
Straw mulch with tack	\$1.32	SY	\$1.58	SM
Jute mesh	\$1.69	SY	\$2.02	SM
Paper and nylon mesh	\$1.59	SY	\$1.90	SM
Plastic netting, 20 mil., 1" x 2" grid	\$1.11	SY	\$1.33	SM

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Temporary Erosion Control				
Gravel construction entrance, including wash rack	\$2,642.50	EA	\$2,642.50	EA
Silt fence	\$4.23	LF	\$13.87	LM
Super silt fence	\$10.57	LF	\$34.68	LM
Tree Protection fencing	\$8.46	LF	\$27.74	LM
Storm drain inlet control	\$169.12	EA	\$169.12	EA
Temporary diversion dike	\$8.46	LF	\$27.74	LM
Temporary sediment trap	\$7.93	CY	\$10.37	CM
Temporary sediment trap gravel outlet	\$26.43	LF	\$86.70	LM
Temporary riser structure - install and remove				
Sediment trap basin	\$8.46	CY	\$11.06	CM
Check dam - gravel	\$211.40	EA	\$211.40	EA
Sediment basin cut	\$21.14	CY	\$27.65	CM
Sediment basin remove and fill upon completion	\$26.43	CY	\$34.56	CM
Temporary riser structure up to 10' tall - install and remove	\$3,805.20	EA	\$3,805.20	EA
Slope Retention Structures- NO mobilization included				
Steel AH@ section, 12 x 53	\$27.48	VLF	\$90.16	VLM
Pre-auger, 24" diameter to 30 feet, normal soil	\$25.37	VLF	\$83.23	VLM
Concrete encasement of H sect., 3000psi	\$21.14	VLF	\$69.36	VLM
Whaler, 12"x12" treated timber	\$19.03	LF	\$62.42	LM
Whaler, 12"x12" prestressed concrete	\$26.43	LF	\$86.70	LM
Soil stabilization fabric	\$2.34	SY	\$2.79	SM
Granular backfill	\$27.48	CY	\$35.95	CM
Sheet piling	\$34.88	SF	\$375.46	SM
Retaining Walls, concrete, gravity, up to 6' in height				
RW-2	\$338.24	LF	\$1,109.71	LM
RW-3	\$380.52	LF	\$1,248.43	LM
Stream diversion				
Cut and haul	\$26.43	CY	\$34.56	CM
Slope sides	\$3.17	SF	\$34.13	SM
Rip rap base/sides with filter cloth	\$21.14	SF	\$227.55	SM
Sand bag diversion in water	\$126.84	CY	\$165.90	CM
Fill diversion and restore stream bank upon completion	\$21.14	CY	\$27.65	CM

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LOW IMPACT DEVELOPMENT(LID)				
Reforestation	\$47,565.00	AC	\$117,535.59	HC
Tree box filter - with grate and frame 6'x6', without tree	\$1,849.75	EA	\$1,849.75	EA
Tree box filter - with grate and frame 8'X8', without tree	\$2,748.20	EA	\$2,748.20	EA
Tree in tree box filter	\$687.05	EA	\$687.05	EA
Tree box outfall 4" schedule 40 PVC with gravel backfill	\$33.82	LF	\$110.97	LM
Porous pavement system - asphalt with gravel base and perforated drains	\$35.94	SY	\$42.98	SM
Porous pavement system - grass pavers with gravel base	\$42.28	SY	\$50.57	SM
Porous pavement system - brick pavers with gravel base	\$107.81	SY	\$128.94	SM
Retention basin - interior volume (includes forebay volume)	\$27.48	CY	\$35.95	CM
Retention basin pipe inlet	\$1,585.50	EA	\$1,585.50	EA
Retention basin riser structure	\$264.25	VLF	\$866.96	VLM
Retention basin pipe outlet with rip rap	\$3,382.40	EA	\$3,382.40	EA
Stabalized overflow spillway	\$264.25	SY	\$316.04	SM
Extended detention basin - interior volume (includes forebay volume)	\$27.48	CY	\$35.95	CM
Extended detention basin pipe inlet	\$1,585.50	EA	\$1,585.50	EA
Extended detention basin riser structure	\$369.95	VLF	\$1,213.75	VLM
Extended detention basin pipe outlet with rip rap	\$3,382.40	EA	\$3,382.40	EA
Stabilized overflow spillway	\$264.25	SY	\$316.04	SM
Extended detention basin rip rap channel	\$38.05	SY	\$45.51	SM
Bio retention filters - volume	\$80.33	CY	\$105.07	CM
Bio retention basins - volume	\$80.33	CY	\$105.07	CM
Landscaping at bioretention filters/basins -	See Landscape Section			
Manufactured BMP systems - hydrodynamics	\$63.42	CY	\$82.95	CM
Manufactured BMP systems - filtering	\$93.02	CY	\$121.66	CM
Constructed wetlands - includes planting saplings, shrubs, grasses. (Does not include reconstructing streams/marshes/wetlands.)	\$23.25	SY	\$27.81	SM
Vegetated swales				
Complete swale includes: piping/underdrain, fill, filter fabric and media	\$80.33	CY	\$105.07	CM
Check dams with filter fabric	\$52.85	CY	\$69.13	CM
Outlet protection with filter fabric	\$52.85	CY	\$69.13	CM
Vegetated roofs with granular drainage and plantings				
Intensive - 18 inches maximum	\$285.39	SY	\$341.32	SM
Extensive	\$190.26	SY	\$227.55	SM
Irrigation to vegetatd roof	\$3.17	SF	\$34.13	SM
Gravel/concrete pavers forming vegetation-free strip	\$12.68	SF	\$136.53	SM
Thermal insulation	\$3.17	SF	\$34.13	SM
Leak detection system	\$2.11	SF	\$22.75	SM
Aluminum curbing for:				
12 inch depth	\$10.57	LF	\$34.68	LM
6 inch depth	\$8.46	LF	\$27.74	LM
Filter fabric	\$1.32	SF	\$14.22	SM